
ACADEMIC CURRICULUM

University of Geneva	Switzerland
Post-Doc Research Fellow	<i>Since 2025</i>
Doctorate in Human Medicine	<i>2020-2025</i>
Bachelor & Master of Medicine	<i>2013-2020</i>

MEDICAL CURRICULUM

Lausanne University Hospital	Switzerland
Resident, Critical Care Medicine	<i>Since 2024</i>
Hôpital Foch	France
Resident, Critical Care Medicine	<i>2024</i>
Kantonsspital St. Gallen	Switzerland
Resident, Anaesthesiology and Critical Care Medicine	<i>2022-2024</i>
GHOL - Hospital Nyon	Switzerland
Resident, Internal, Emergency and Critical Care Medicine	<i>2020-2022</i>

PAST WORK EXPERIENCE

Founder	Switzerland
<i>Vlynt, Distributed content delivery network for server load balancing</i>	<i>2016-2019</i>

EXTRA-CURRICULAR POSITIONS

Research program for medical students	Harvard University, USA
<i>Lee Lab, Eaton-Peabody Laboratories, Massachusetts Eye & Ear Infirmary</i>	<i>2016 & 2017</i>
External consultant , Division for foreign economic policy	Berlin, Germany
<i>Federal Foreign Office</i>	<i>October-December 2016</i>
Research program for medical students	Geneva University, Switzerland
<i>Laboratory for neurology and imaging of cognition</i>	<i>July-August 2015</i>

DISTINCTIONS

Best Poster Award	Geneva, Switzerland
<i>Innovation centre, HUG</i>	<i>2019</i>
Finalist , START	Lausanne, Switzerland
<i>Entrepreneurial contest</i>	<i>2017</i>
Gold medallist	France
<i>French national Geoscience Olympics</i>	<i>2012</i>

PEER-REVIEWED PUBLICATIONS

Dirren E, **Klug J**, Jarne C, Vidaurre D, Carrera E. Determinants of brain network resilience after stroke. *Brain Commun*.

Klug J, Cortier D, Wolf S, Carrera E, Cerf C, Pietsch U. Effect of extended intravenous diclofenac infusions on brain tissue oxygenation in patients with acute brain injury. *Intensive Care Med Exp*. 2025;13(1):50.

Dirren E, Escribano Paredes JB, **Klug J**, Barthoulot M, Fluss J, Fracasso T, Kurian GK, Machi P, Niederhauser J, Suppan L, Sztajzel RF, Bijlenga P, Carrera E. Stroke Incidence, Case Fatality, and Mortality Using the WHO International Classification of Diseases 11: The Geneva Stroke Study. *Neurology*. 2025 Mar 11;104(5):e213353

Klug J, Leclerc G, Dirren E, Carrera E. Machine learning for early dynamic prediction of functional outcome after stroke. *Nature Communications Medicine*. 2024 Nov 13;4(1):232.

Klug J, Martins J, De Trizio I, Carrera E, Filipovic M, Hostettler IC, Pietsch U. Dynamically Normalized Pupillometry for Detecting Delayed Cerebral Ischemia After Aneurysmal Subarachnoid Hemorrhage. *Critical Care Explorations*. 2024 Jul 31;6(8):e1135.

Klug J, Pietsch U. Can artificial intelligence help for scientific illustration? Details matter. *Critical Care* 2024. 28, 196.

Klug J, Van Asche M, Dirren E, Richiardi J, Carrera E. Preparing for a second attack: a lesion simulation study on network resilience after stroke. *Stroke*. 2022; 2038-2047.

Paredes J, Salerno A, **Klug J**, Dirren E, Sanda N, Bonvin C, Dunet V, Vargas M, Saliou G, Machi P, Michel P, Carrera E. Intravenous rtPA before thrombectomy vs thrombectomy alone in strokes with unknown time of onset. *Stroke*. 2022. e136-e138.

Dirren E, Bourgeois A, **Klug J**, Kleinschmidt A, van Assche M, Carrera E. The neural correlates of intermanual transfer. *NeuroImage* 2021;118657.

Klug J, Mach B, Racine G, Moret Bochatay M. Covid-19 : ne pas mettre la charrue avant les bœufs [COVID-19: Do not put the cart before the horse]. *Rev Med Suisse* 2021;17(754):1749–52.

Bourcier S, **Klug J**, Nguyen Lee S. Non-occlusive mesenteric ischemia: Diagnostic challenges and perspectives in the era of artificial intelligence. *World J Gastroenterol* 2021;27(26):4088–103.

Klug J, Leclerc G, Dirren E, Preti MG, Van De Ville D, Carrera E. Bayesian Skip Net: Building on Prior Information for the Prediction and Segmentation of Stroke Lesions. In: Crimi A, Bakas S, editors. *Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries*. Cham: Springer International Publishing; 2021. p. 168–80.

Klug J, Dirren E, Preti MG, et al. Integrating regional perfusion CT information to improve prediction of infarction after stroke. *J Cereb Blood Flow Metab* 2021;41(3):502–10.

Bègue I, Blakemore R, **Klug J**, et al. Metacognition of visuomotor decisions in conversion disorder. *Neuropsychologia* 2018;114:251–65.

Tarabichi O, Kanumuri VV, **Klug J**, et al. Three-Dimensional Surface Reconstruction of the Human Cochlear Nucleus: Implications for Auditory Brain Stem Implant Design. *J Neurol Surg B Skull Base* 2020;81(2):114–20.